

MSK Specimen Tracking System Goals

- 1. Coherent management of tissue requests
- 2. Information management of resource depletion
- 3. Linkage of distributed specimens with clinical outcome data
- 4. Ability to distribute specimens and related data anonymously
- 5. Improved accession of tissue
- 6. Ability to reserve tissue either before or after banking



Specimen Tracking & Research Results Database Relationships

Specimen
Tracking
System

Patient MRN

CRDB

Specimen ID#

(Clinical Outcome Data)

Specimen ID#
Only

Pathological Research Results Decision
Support Tables

CRDB = Clinical Research Database



Data Entry Forms / Tables

- Specimen Accession Form
 - Specimen Accession
 - Specimen Part
 - Specimen Bank
 - Specimen Bank Detail
- Specimen Request Form
 - Specimen Request
 - Specimen Request Detail
- Specimen Distribution Form
 - Specimen Distribution



Specimen Accession Tables

Specimen Accession

 Accession of individual specimens; clinical details about the patient from whom the specimen was obtained

Specimen Part(s)

 Details about the individual part(s) that are created from a single surgical procedure

Specimen Bank

All specimens received by the bank

Specimen Bank Detail

o Details about all specimens and their distribution

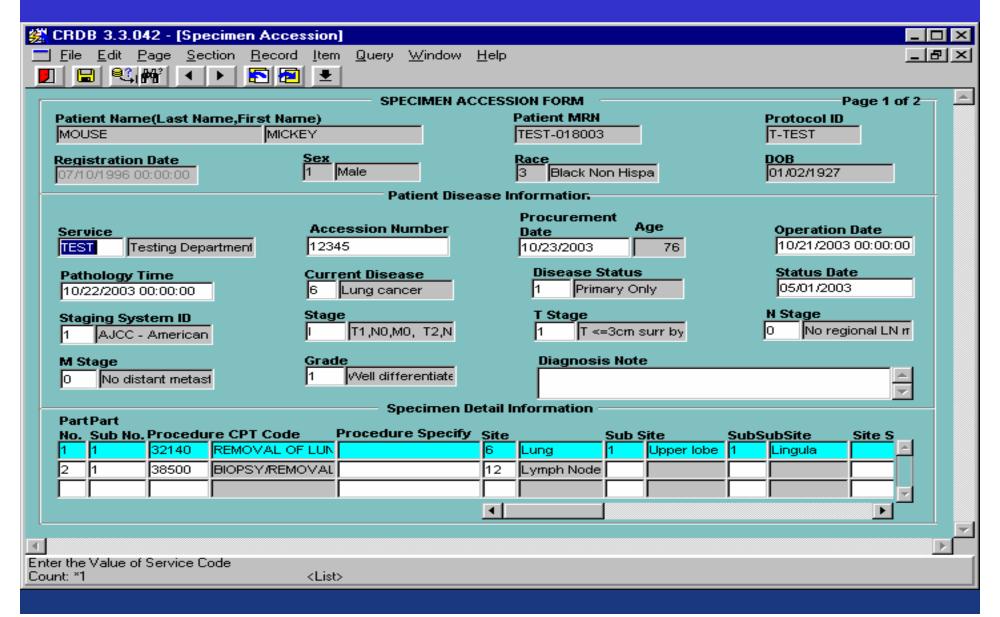


Specimen Accession: Data Elements

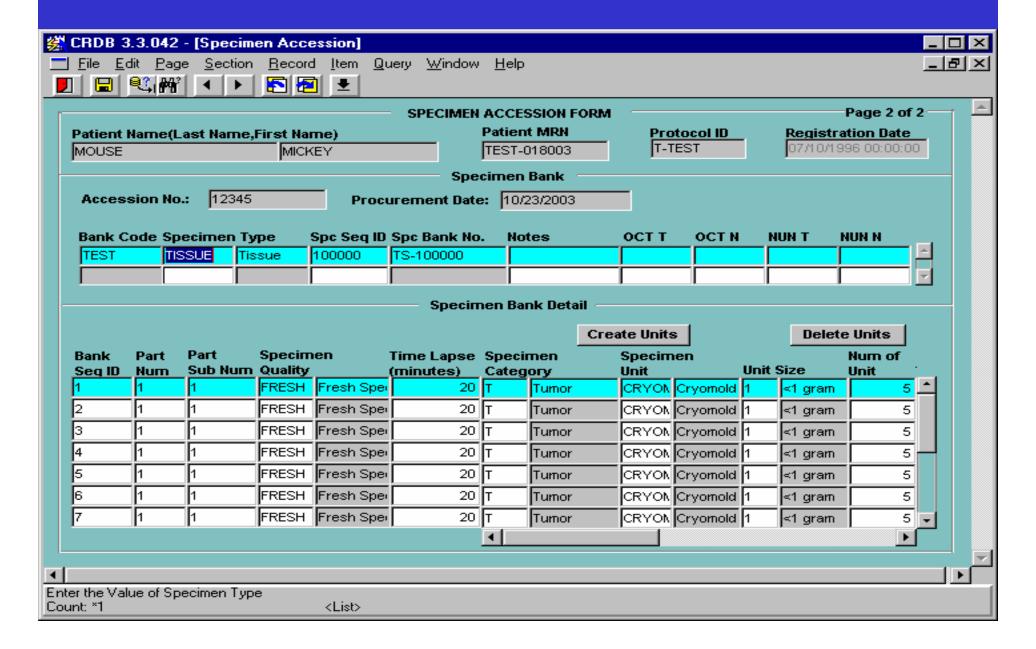
- Patient Identifiers & Diagnosis Information
- Pathology Date & Accession #
- Procurement Date
- Service Code
- Specimen Part #
- Specimen Identifiers (Site and Cell Type)
- Bank #
- Specimen Type (e.g., Tissue, Blood)
- Amount of Specimen Available
- Distribution ID
- Allocation Time
- Distribution Time



Specimen Accession Form (Page 1)



Specimen Accession Form (Page 2)



Specimen Request Tables

- Specimen Request
 - Contains information about the individual request for specimens
- Specimen Request Detail
 - Information about the types of specimen that are requested (including the specific site(s) and cell type(s) needed to fill the request)

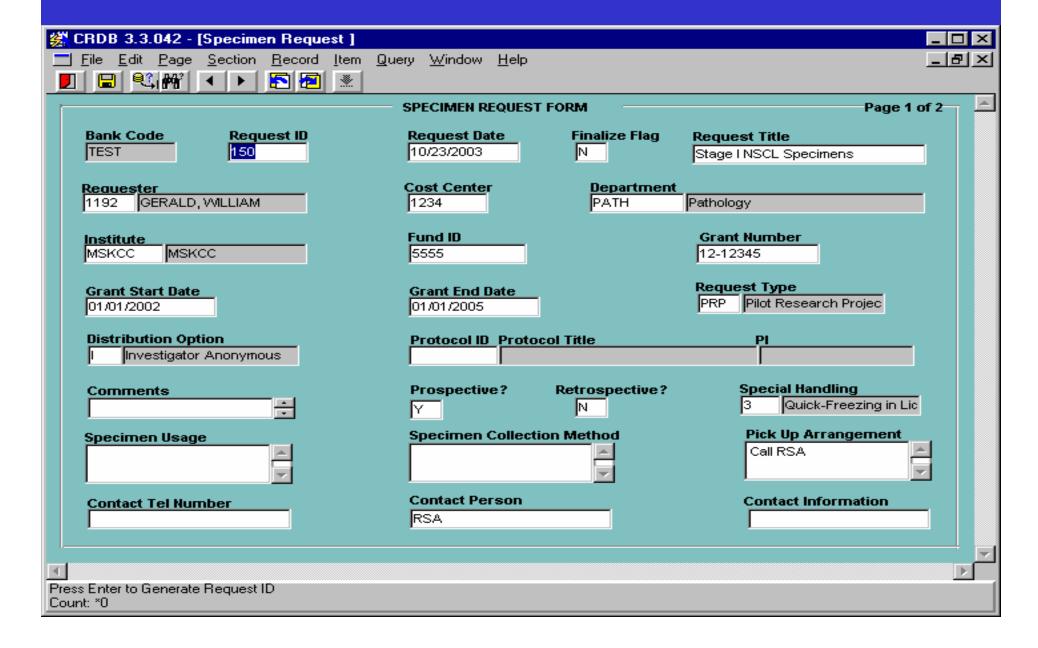


Specimen Request: Data Elements

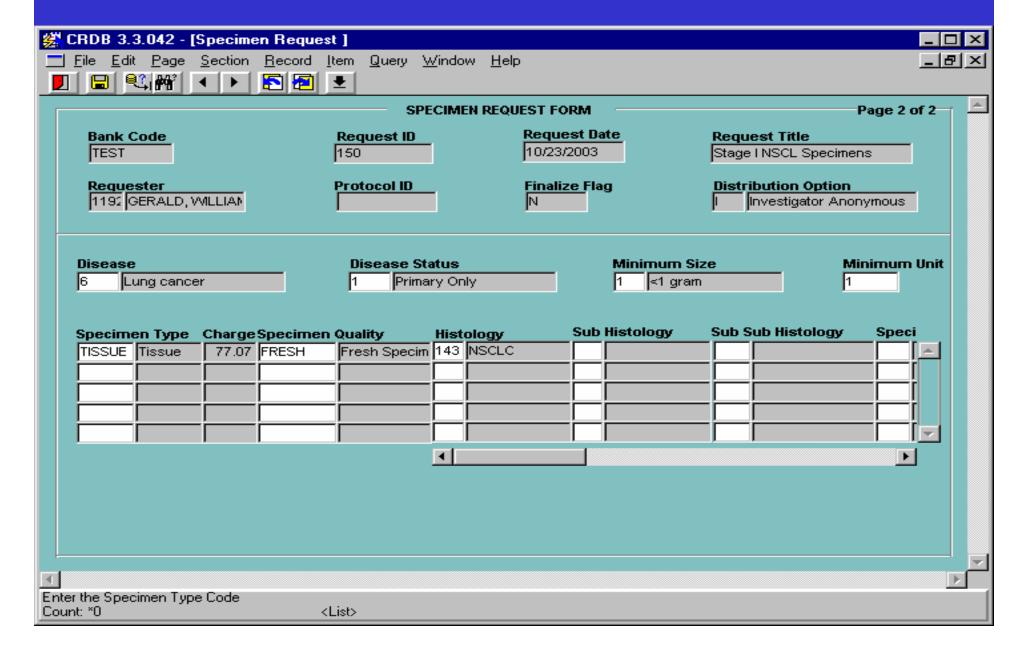
- Request ID
- Requester Information
- Request Date
- Distribution Type (e.g., Anonymous)
- Type of Request
 - IRB Protocol
 - Pilot Study
 - Clinical Review
 - Single Patient Request
- Specimen Information (Site and Cell Type)
- Billing Criteria



Specimen Request Form (Page 1)



Specimen Request Form (Page 2)



Specimen Distribution Table

- Information about specimens distributed from the bank. This process includes:
 - Selection of Current Requests
 - Ability to Query Available Specimens in Bank
 - Distribution of Specimens Based on Patient's Consent Status
 - Anonymization of Information

Specimen Distribution Data Elements

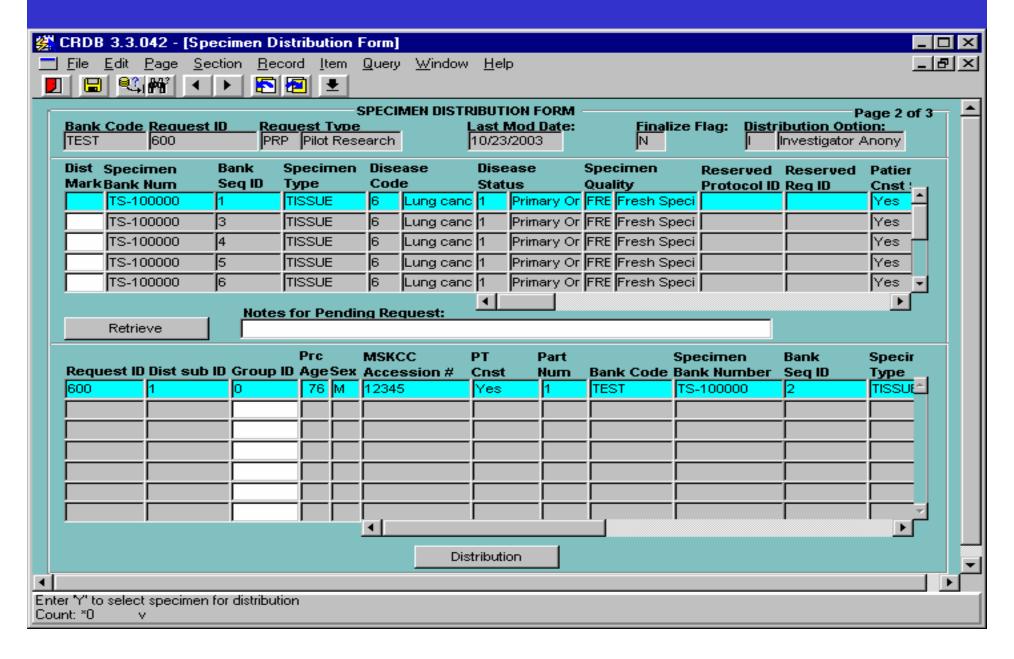
- Distribution ID
- Request ID
- Additional Data From Previous Tables by Way of Hidden Patient Identifiers



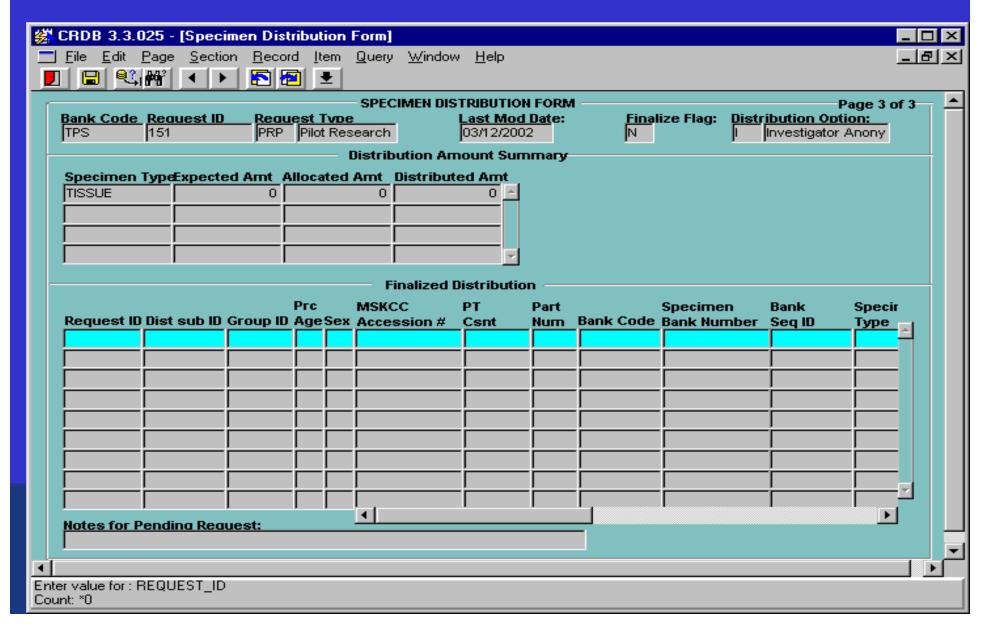
Specimen Distribution Form (Page 1)

CRDB 3.3.042 - [Specimen Distribution Form]		_
☐ File Edit Page Section Record Item □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	<u>Q</u> uery <u>W</u> indow <u>H</u> elp	_B×
Bank Code Request ID Request Type TEST 600 PRP Pilot Rese	SPECIMEN DISTRIBUTION FORM Last Mod Date: earch 10/23/2003 Customized Query Criteria:	Page 1 of 3 Finalize Flag: Distribution Option: N Investigator Anony
Query ID: Query Description:	Save Parameter	Clear Parameters
Specimen Bank Number: MRN Last Name	Specimen Search Criteria:	Reserved Request ID Protocol ID
Disease Code: 6 Lung cancer	Disease Status: 1 Primary Only	Specimen Quality:
Specimen Histology: 143 NSCLC	Specimen Sub Histology:	Specimen Unit:
Specimen Category:	Specimen Site:	
Notes for pending request:		Comments
	Search	
1		D
Patient's histology code Count: *0 <list></list>		

Specimen Distribution Form (Page 2)



Specimen Distribution Form (Page 3)



Non-Anonymized Distribution

(patient identity known)

- Patients give full consent for the specific molecular or genetic tests that will be conducted
- No restrictions are placed on the coding variables (each specimen may be identified by patient identifiers, facilitating a direct link with clinical outcome data)



Investigator Anonymized Distribution

(samples coded but linked to patient identity)

- Investigators will be unable to identify the patient
- Specimens will be distributed with a coded identification number that will identify the specimen
- Clinical information may also be supplied via the Specimen Bank #



Fully Anonymized Distribution

(irrevocably unlinked to patient identity)

- Once a specimen is distributed it can never be re-linked to the patient
- All clinical data must be available at the time of distribution



Specimen Accession

Specimen Banking

Specimen Distribution

SPC_ACCESSION

Specimen code #

MSKCC accession number #

Procurement_date #

Patient ID

Patient diagnosis

Other stuff...

SPC PART

Part number #

Subpart number #

Specimen site

OR procedure (CPT code)

Specimen histology

Other stuff...

SPC BANK

Bank ID#

Specimen Type # (tissue,

blood, etc)

Specimen Sequence ID #

Other stuff...

SPC BANK DTL

Bank Sequence ID #

Specimen Amount/Unit

Specimen category

IRB protocol ID

Specimen location (freezer)

Billing Amount

*Distribution ID

Distribution date/time

If a truly anonymized distribution is performed, the Distribution ID is replaced with all zeroes at distribution, breaking the link to the Specimen Distribution table

SPC REQUEST

Specimen

Request

Bank ID#

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Request ID #

Requestor Info

Request Date

Request_type (what's it for?)

Distribution type (Anonymized,

Investigator Anonymized or Not Anonymized)

Other stuff...

Note that the Specimen Request table is entirely independent of Accession and Banking, to enable requests to be entered (i.e., reservations to be made) for specimens not yet available in the bank

SPC_DISTRIBUTION

*Bank ID#

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*Request ID #

(*Distribution Sub-ID #

Patient identifying information (blank unless non-anonymized distribution is selected)

Any diagnosis/treatment/ outcome data that may be required after the link has been broken

*These three fields (Bank ID, Request ID and Distribution Sub-ID in the Specimen Distribution table are combined to form the Distribution ID in the Specimen Banking Detail table, which is only filled out when the specimen has been allocated

